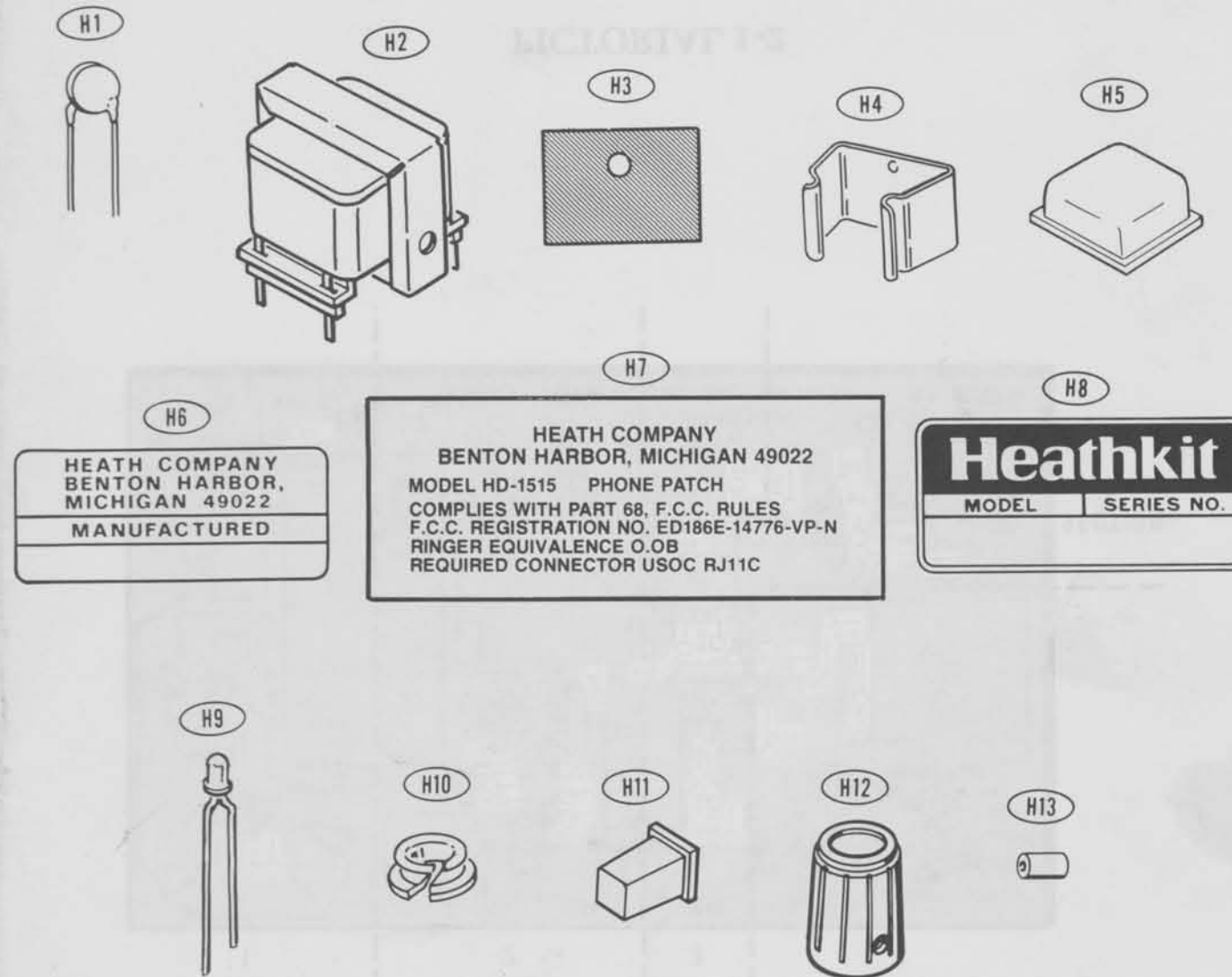
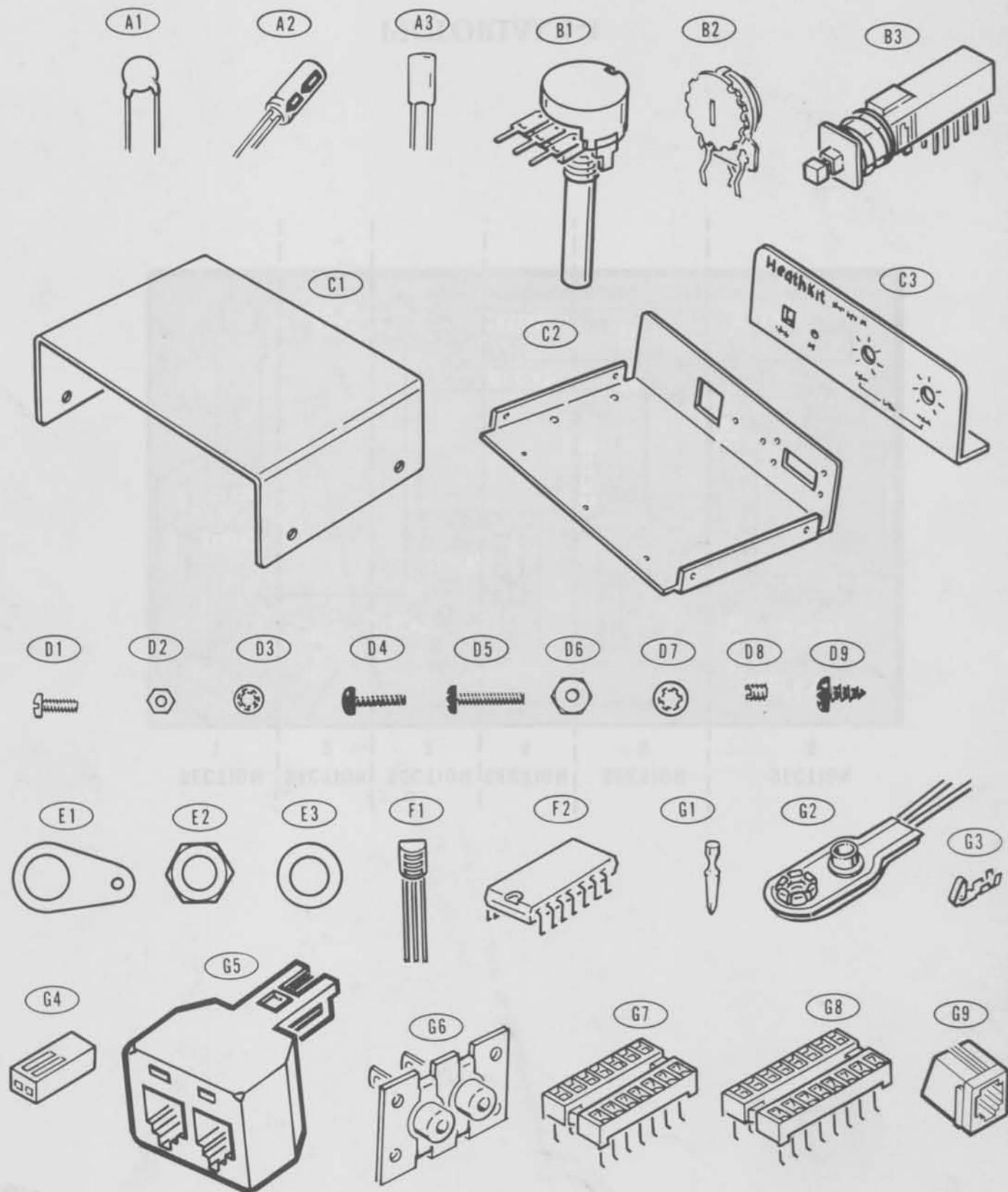


ILLUSTRATION BOOKLET

Part of 595-3312

PARTS PICTORIAL

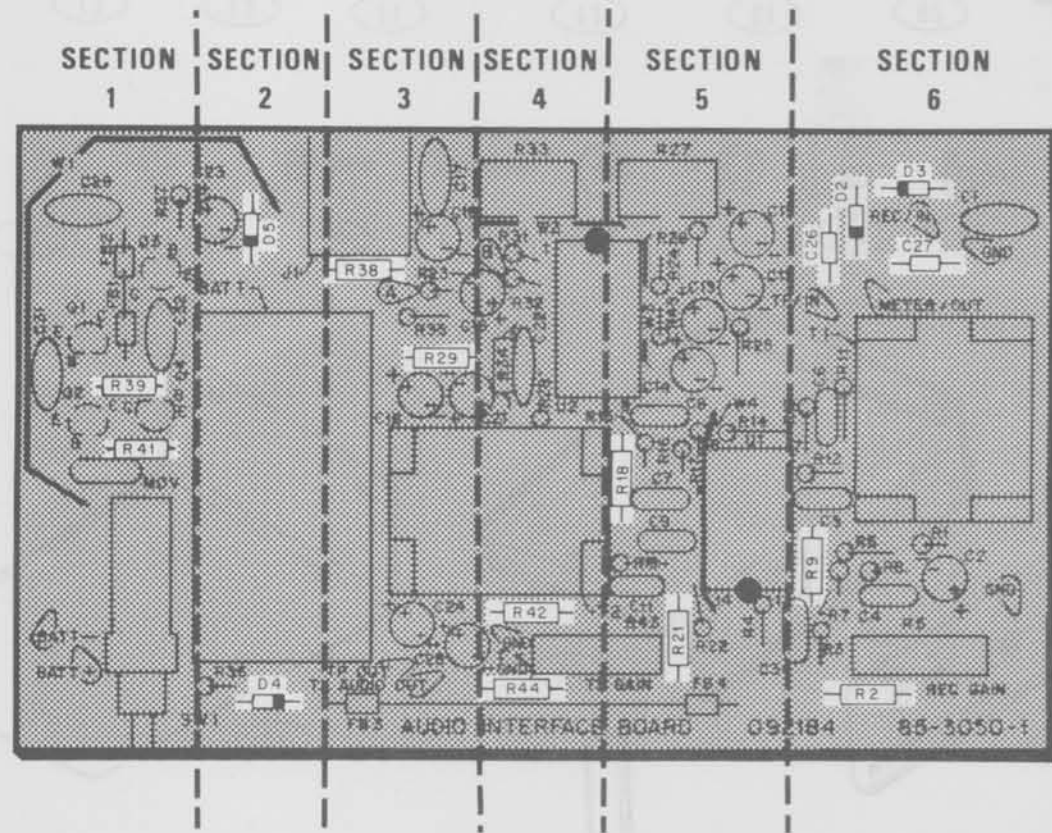


PHONE PATCH

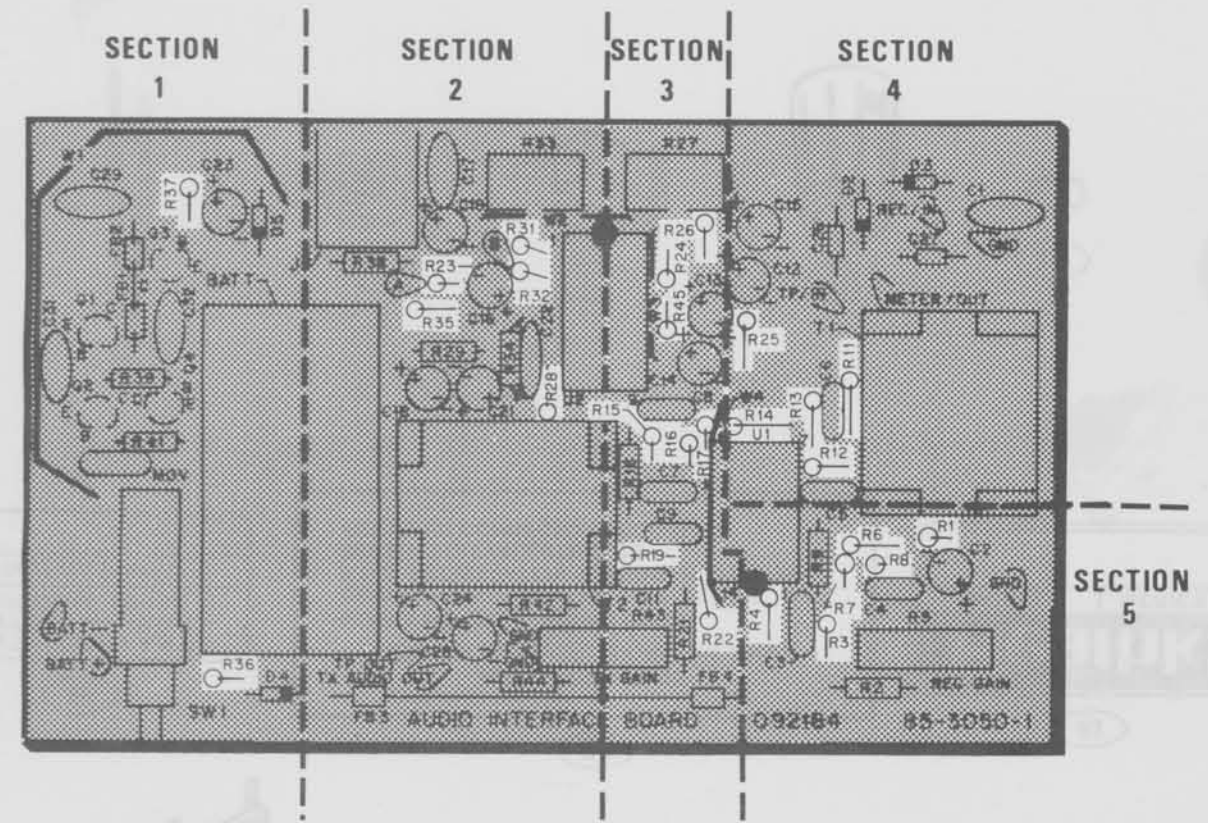
Model HD-1515

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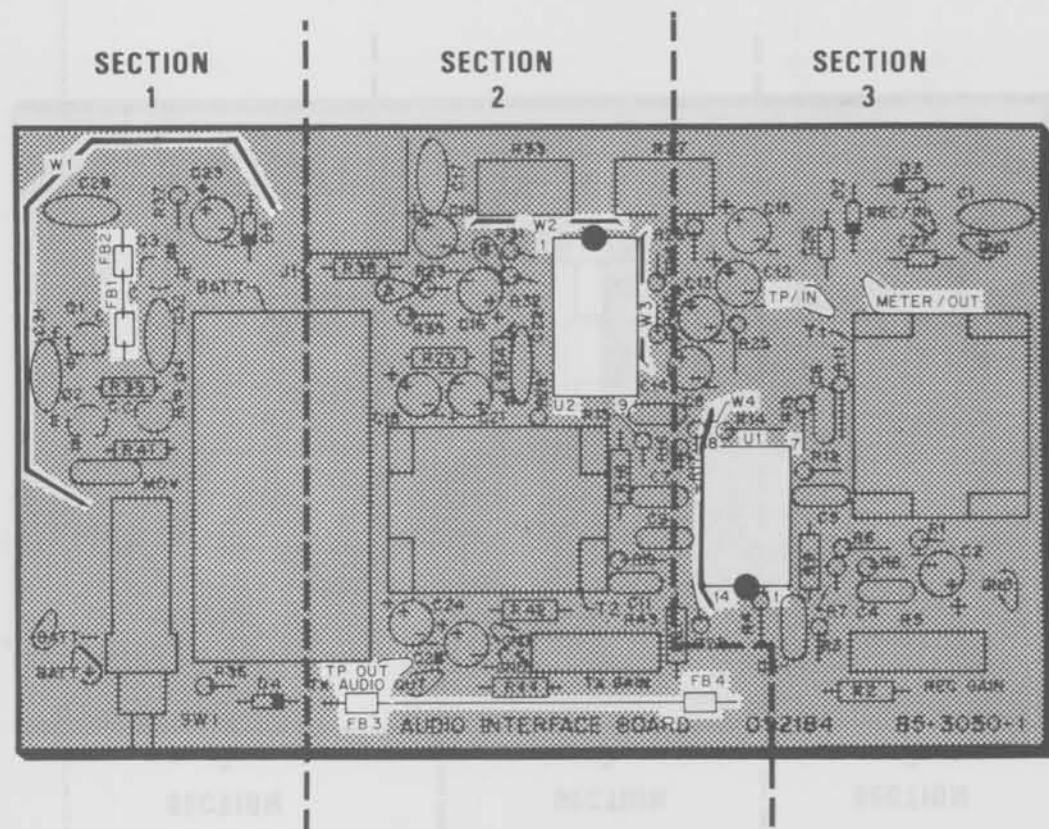
BOISA
STONE



PICTORIAL 1-1

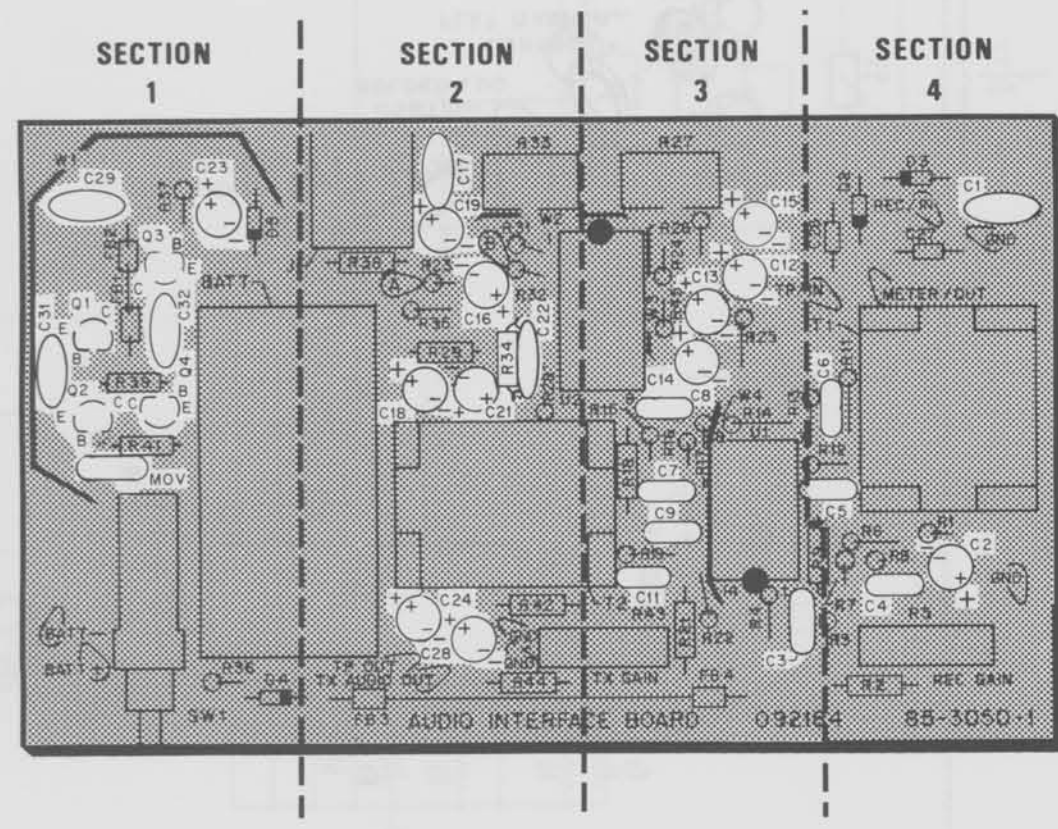


PICTORIAL 1-2

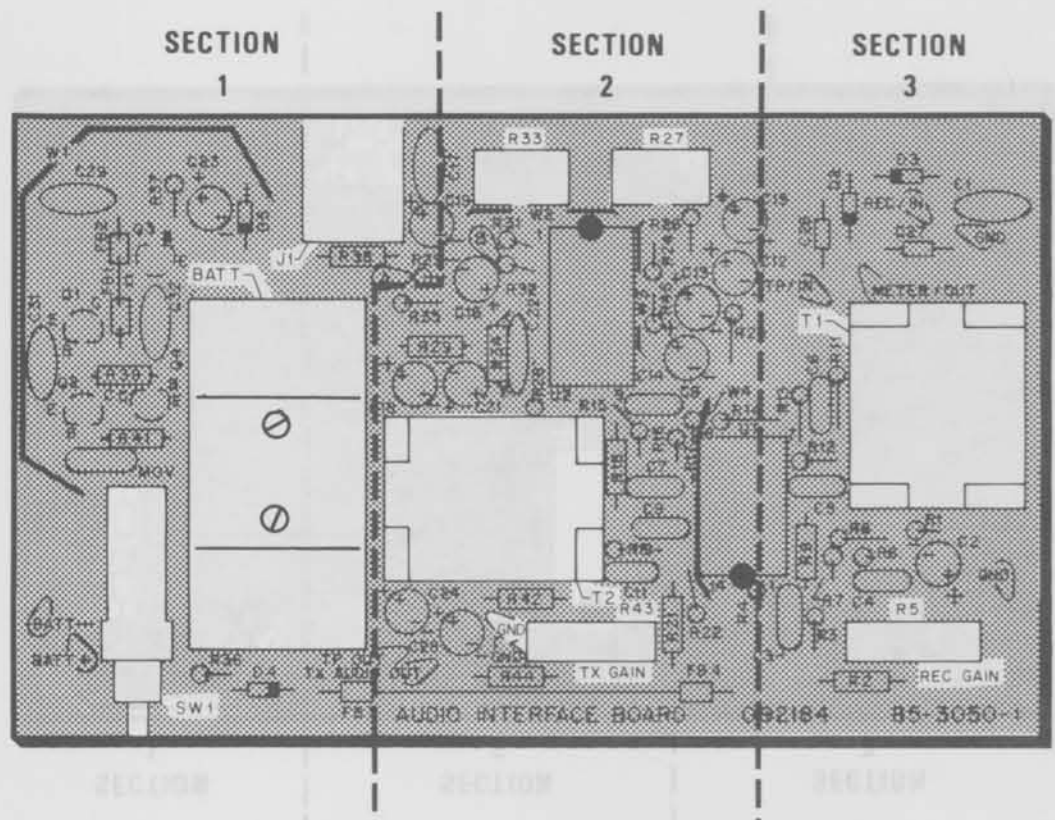


SCHEMATIC OF THE
NEA
MODEL NO-1813
PHONE PATCH

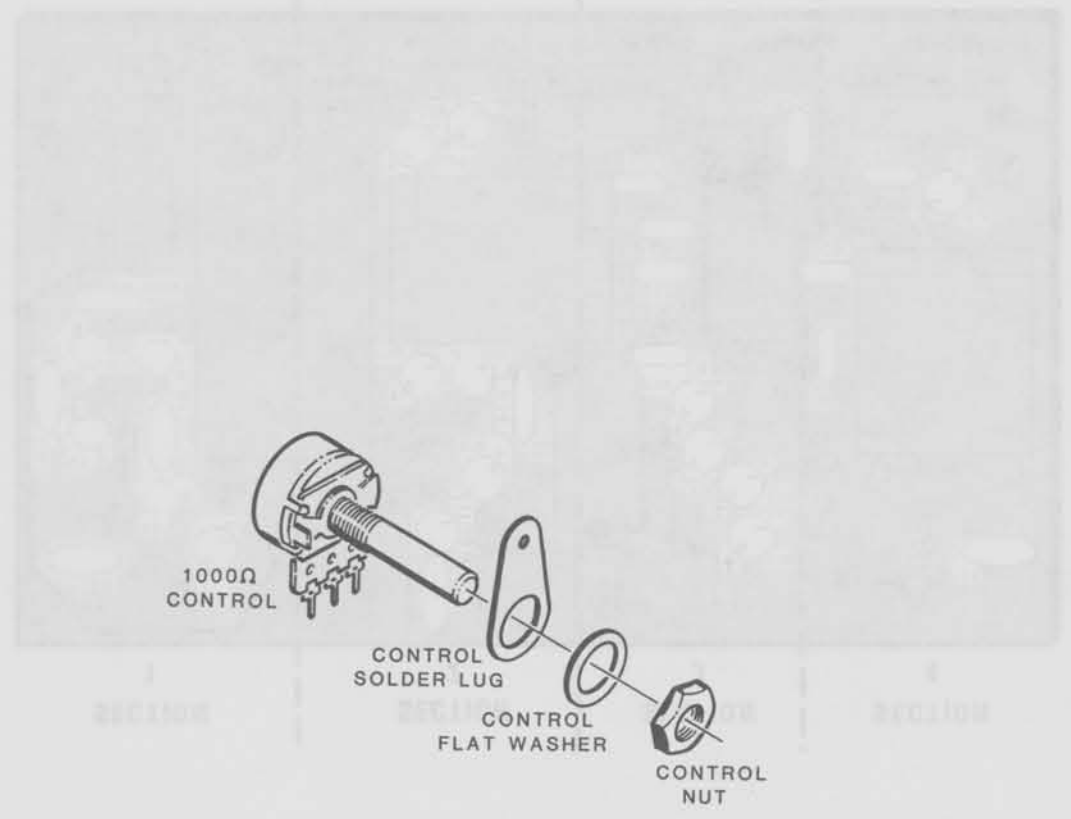
PICTORIAL 1-3



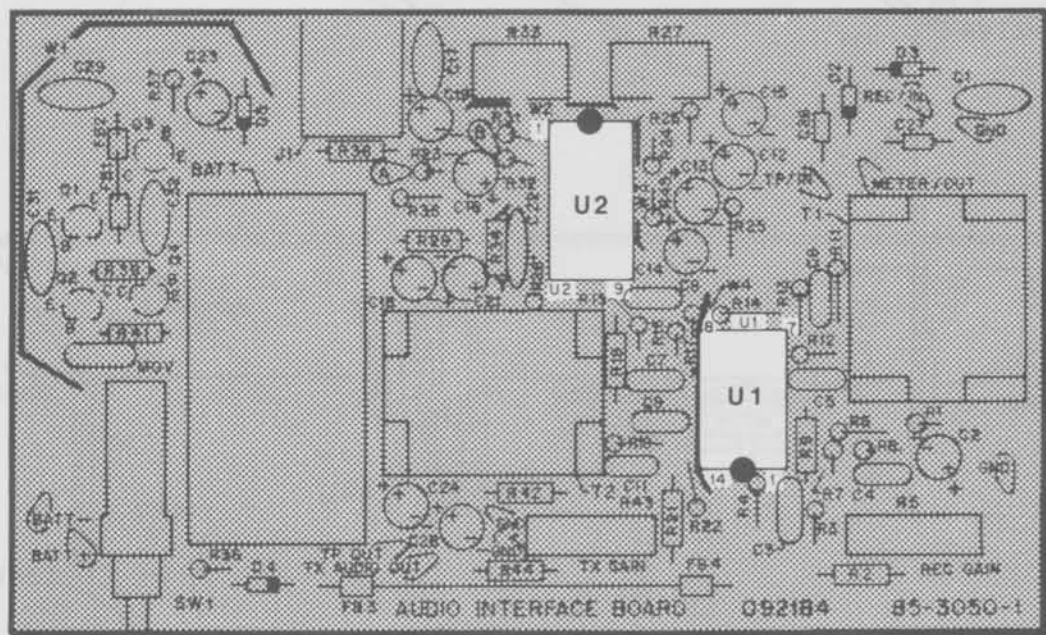
PICTORIAL 1-4



PICTORIAL 1-5



Detail 1-5A



PICTORIAL 1-6

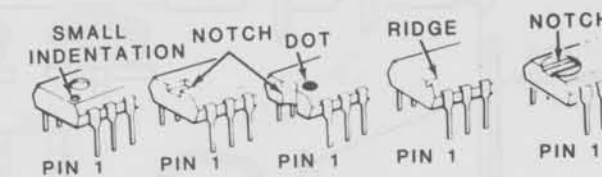
The pins on the IC's may be bent out at an angle, so they do not line up with the holes in the IC socket. DO NOT try to install an IC without first bending the pins as described below. To do so may damage the IC pins or the socket, causing intermittent contact.



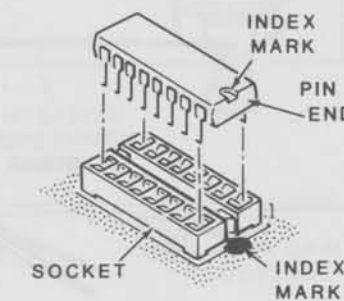
Before you install an IC, lay it down on its side as shown below and very carefully roll it toward the pins to bend the lower pins into line. Then turn the IC over and bend the pins on the other side in the same manner.



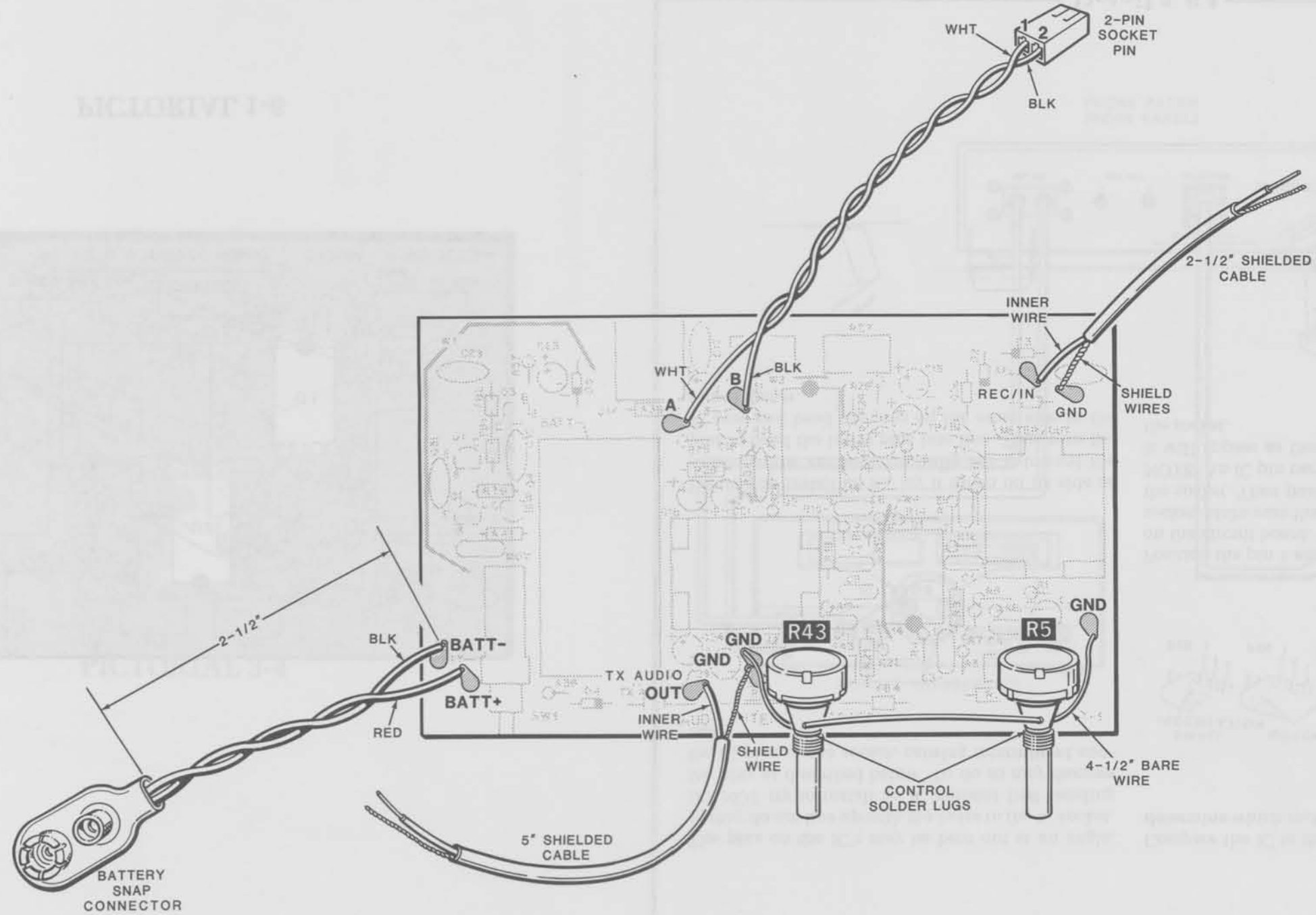
Compare the IC to the drawing shown below. Then determine which end of the IC is the pin 1 end.



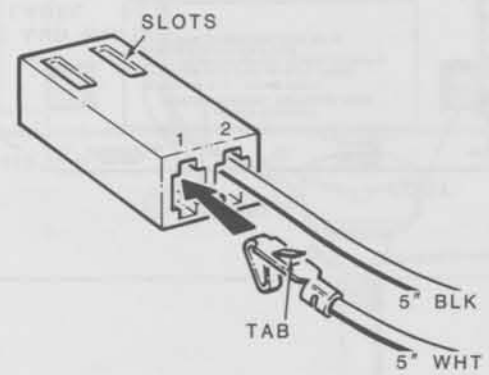
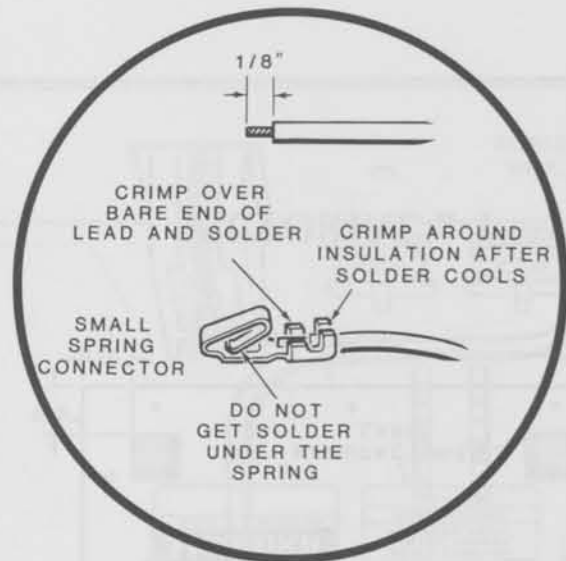
Position the pin 1 end of the IC over the index mark on the circuit board. Then start the IC pins into the socket. Make sure that all of the pins are started into the socket. Then push the IC firmly into the socket. NOTE: An IC pin can become bent under the IC and it will appear as though it is correctly installed in the socket.



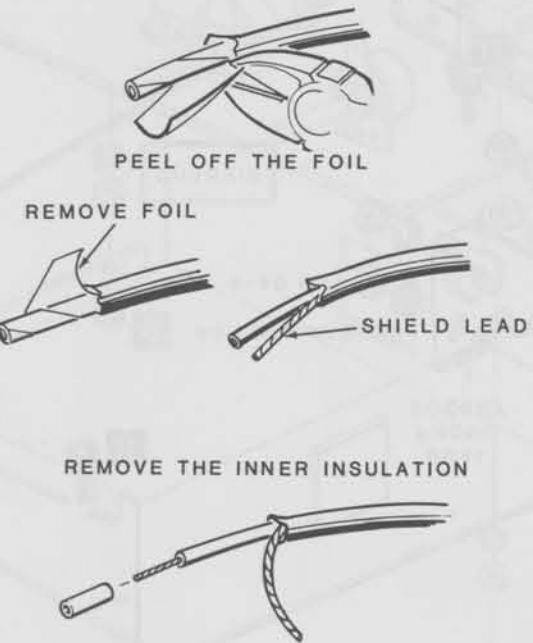
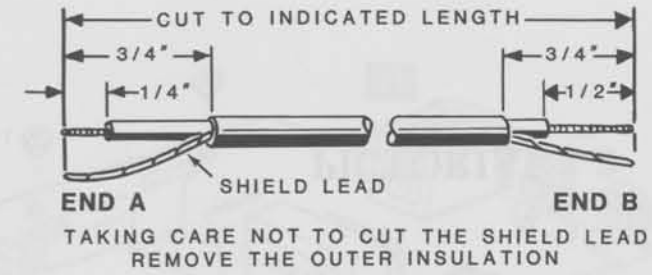
Detail 1-6A



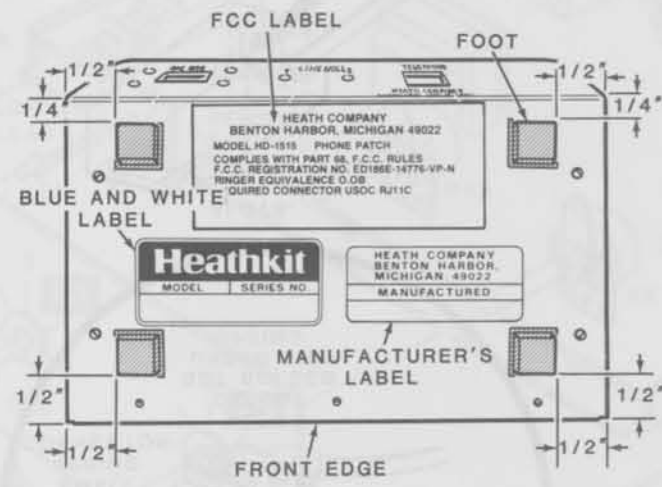
PICTORIAL 1-7



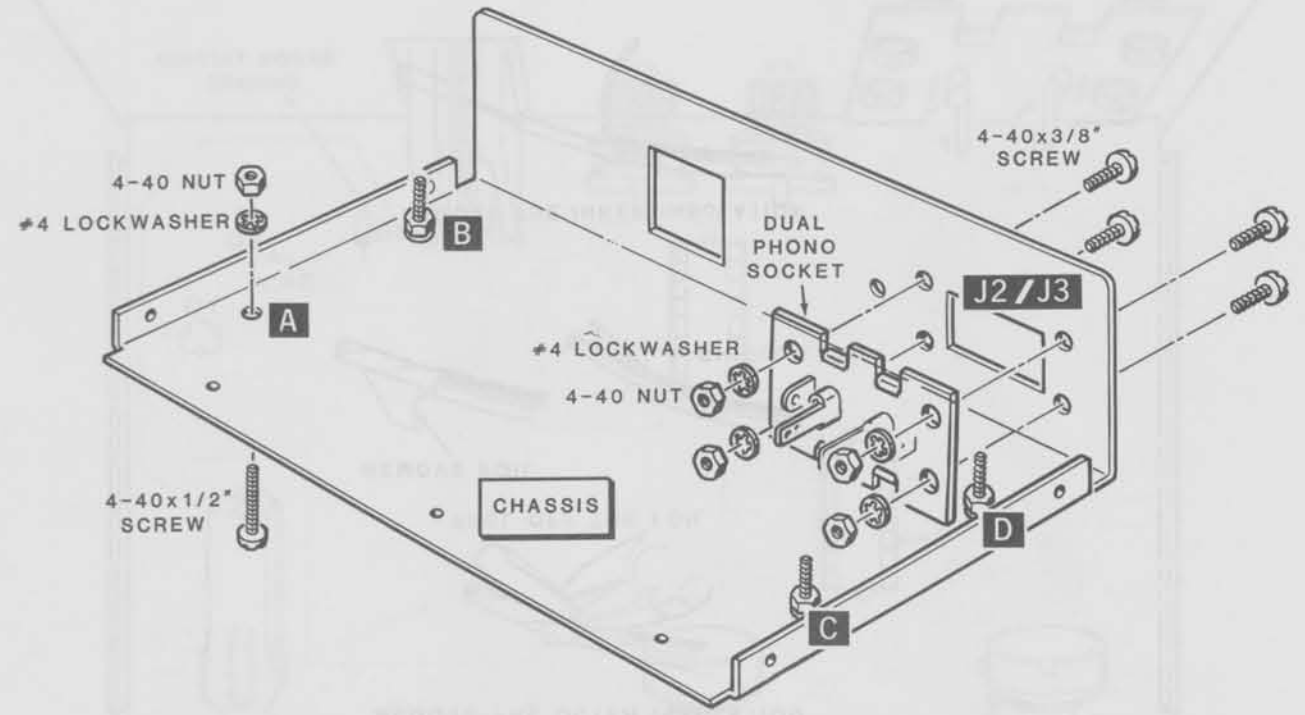
Detail 1-7A



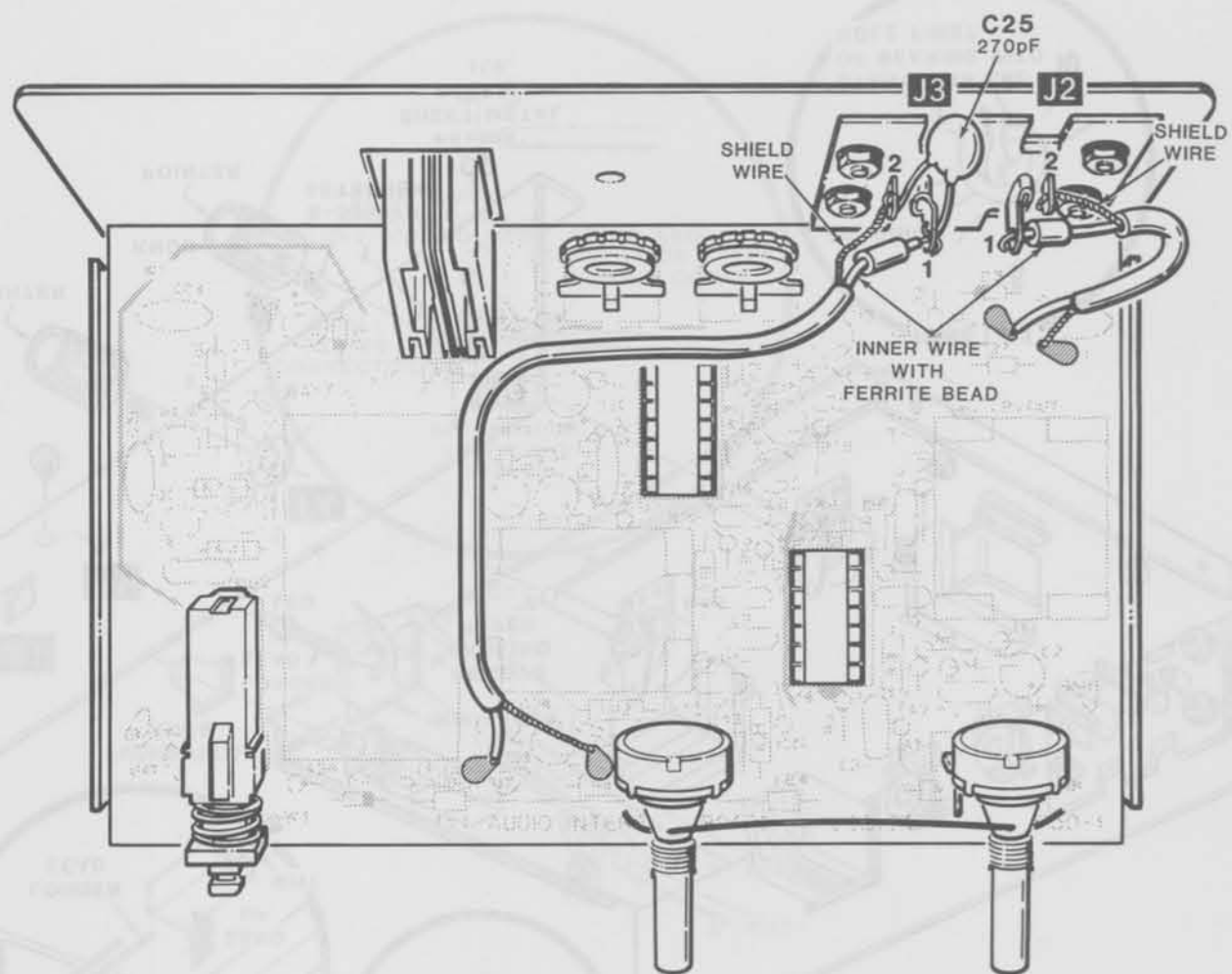
Detail 1-7B



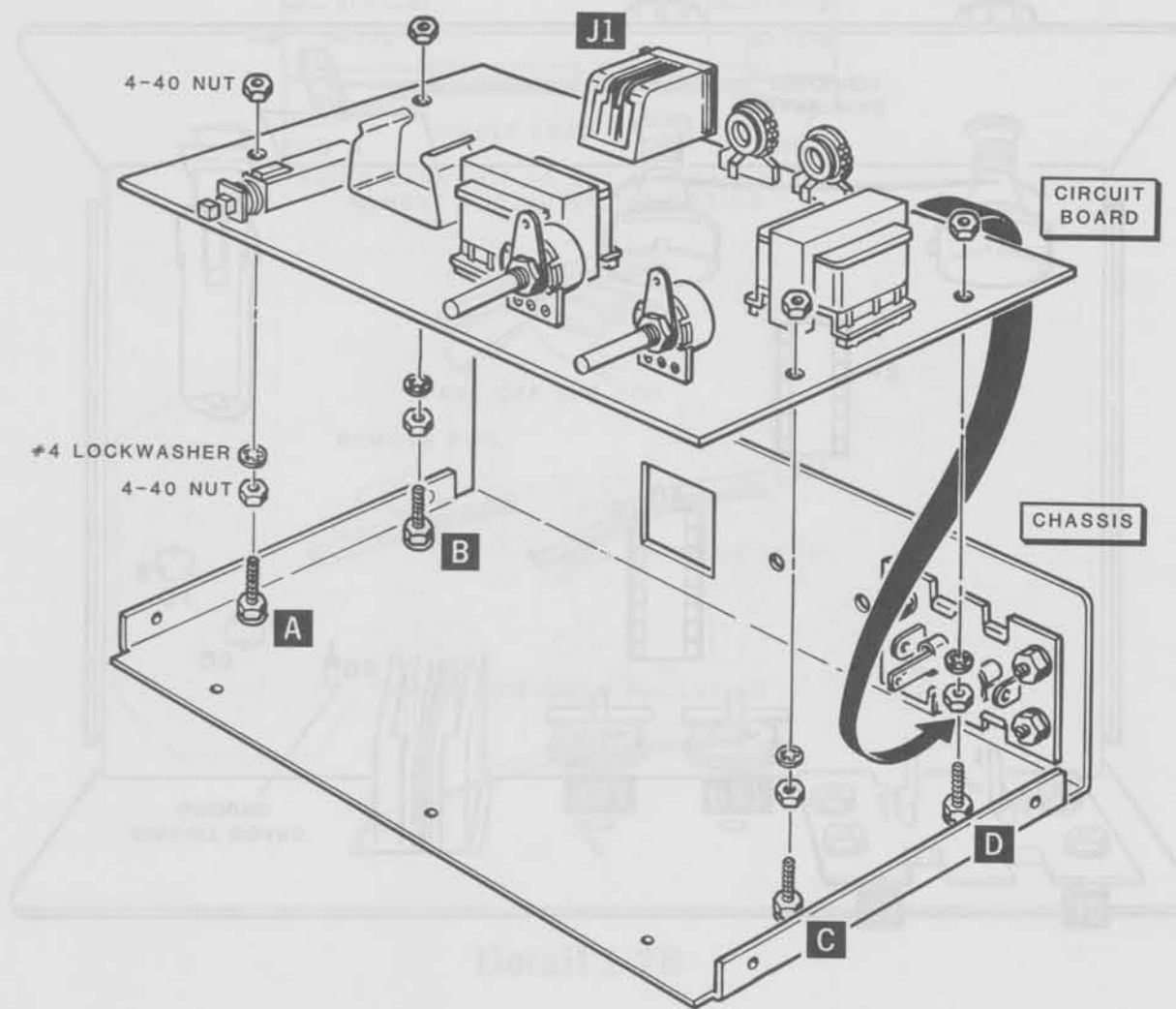
PICTORIAL 2-1



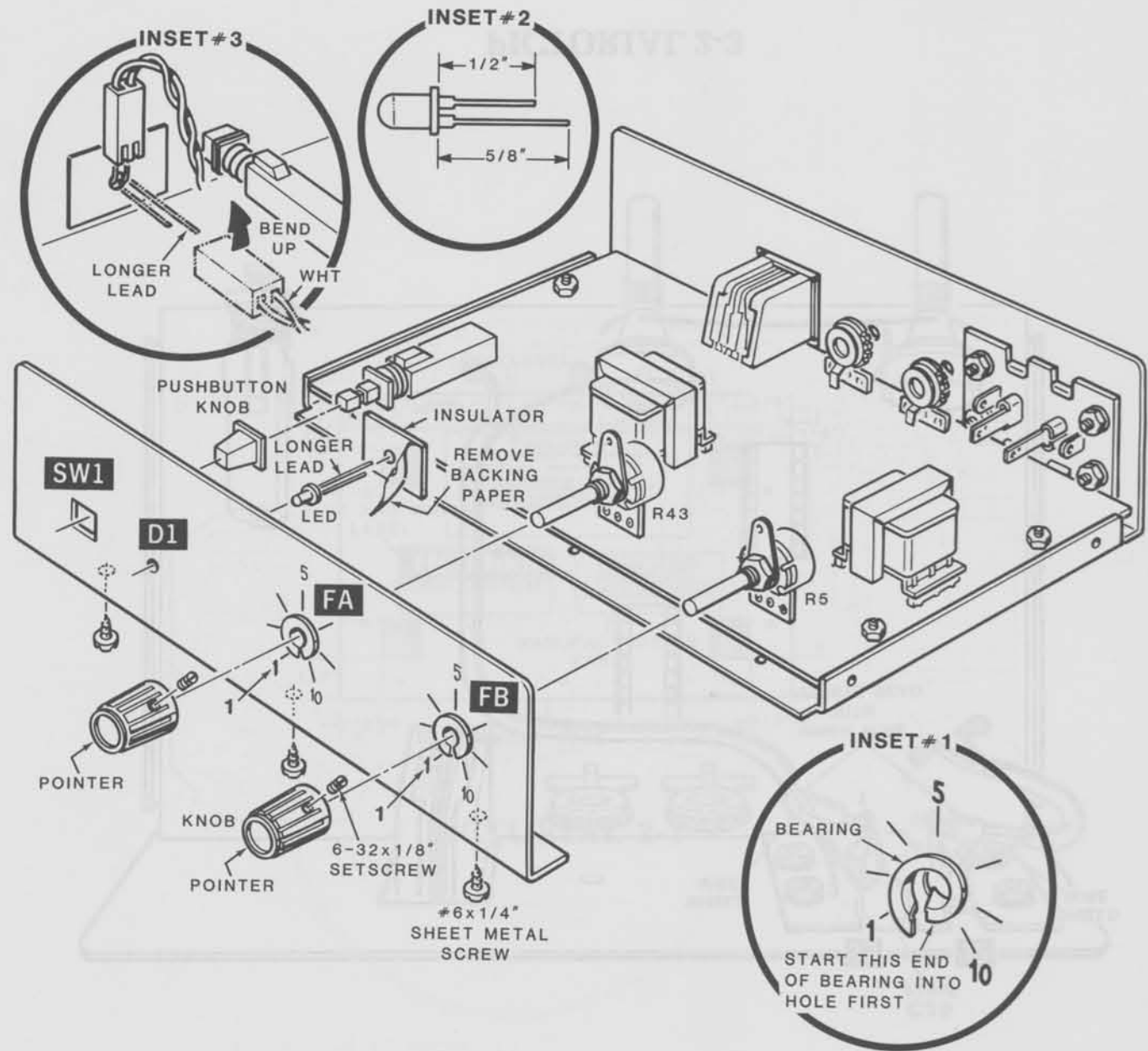
PICTORIAL 2-2



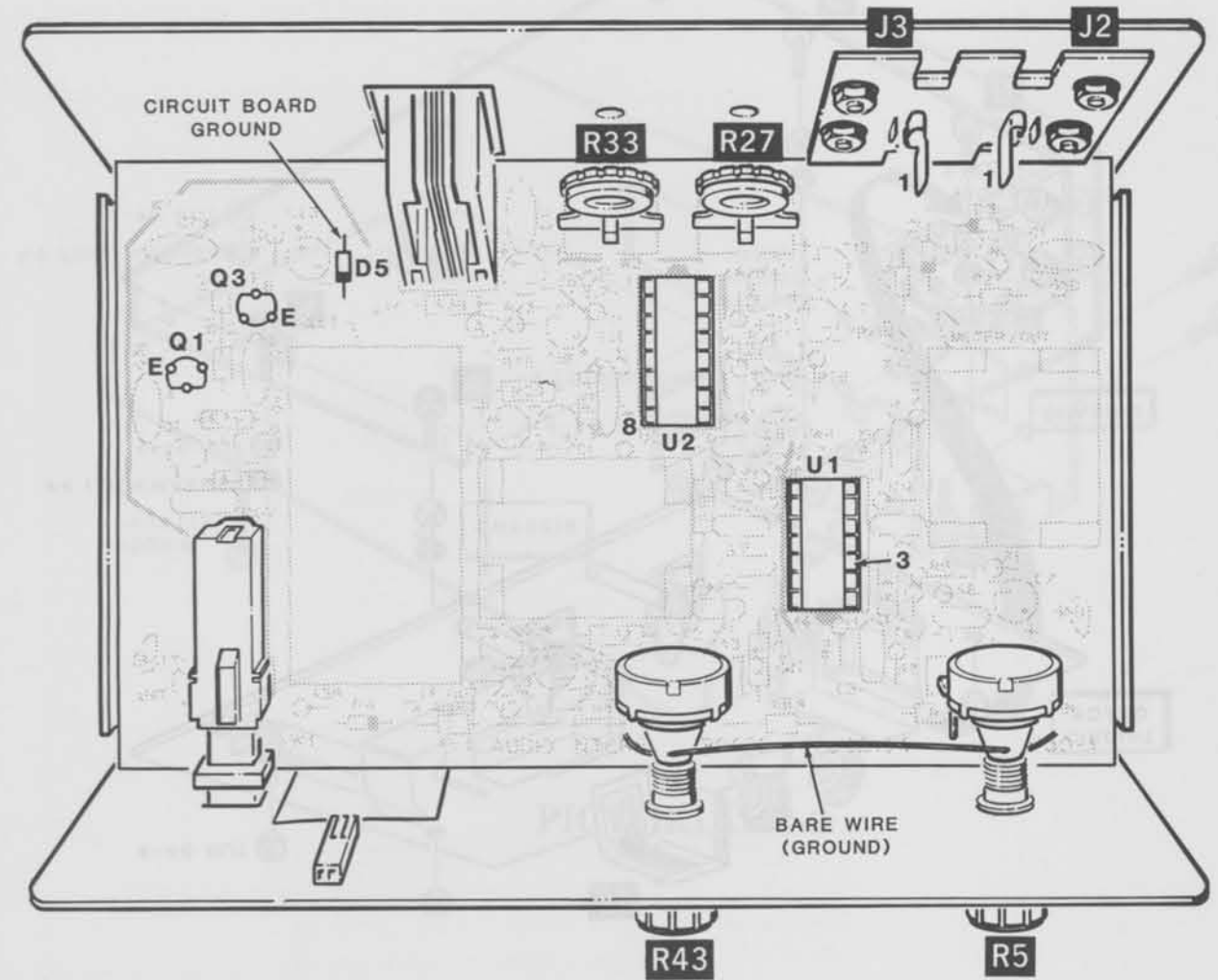
PICTORIAL 2-3



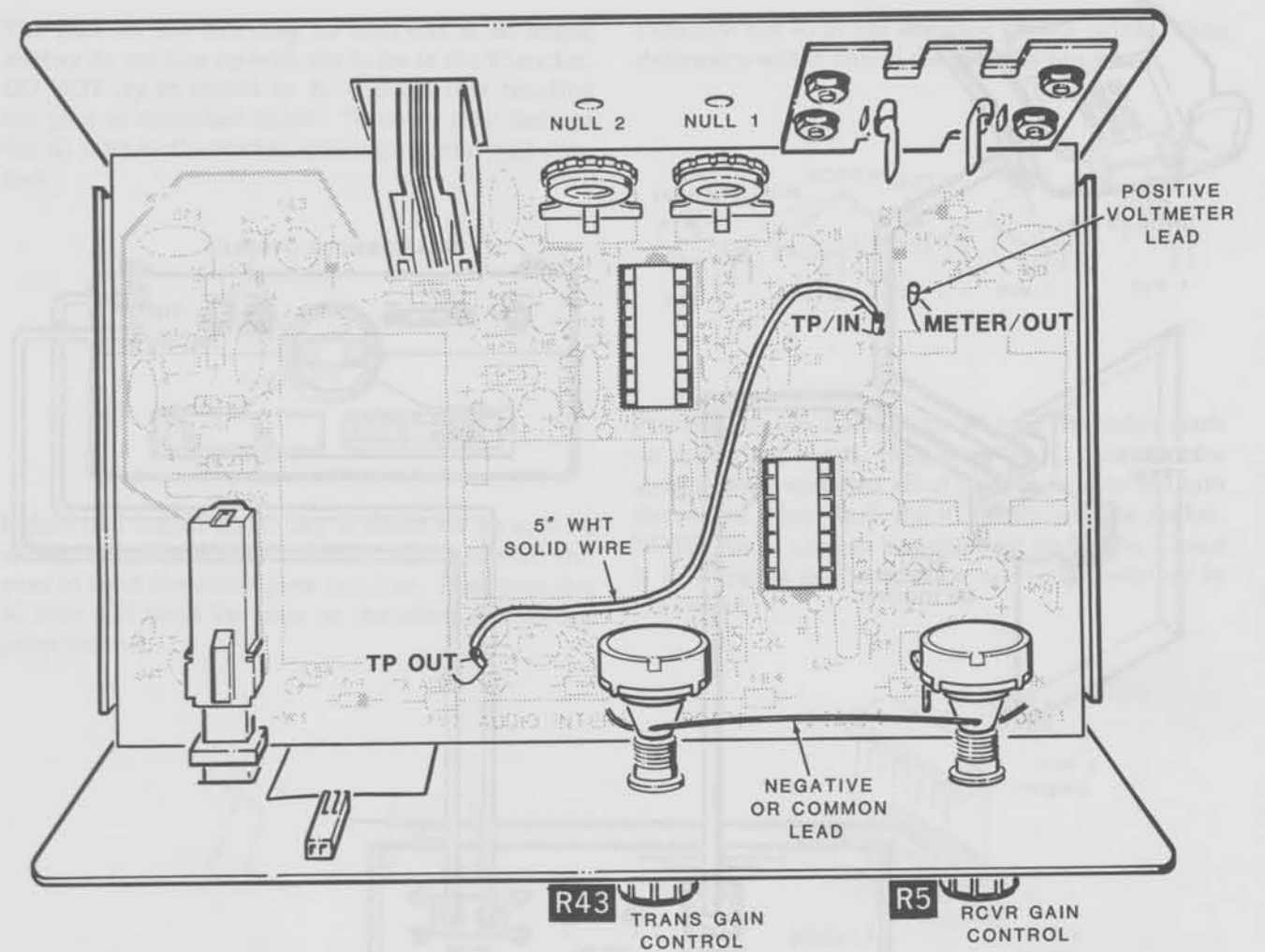
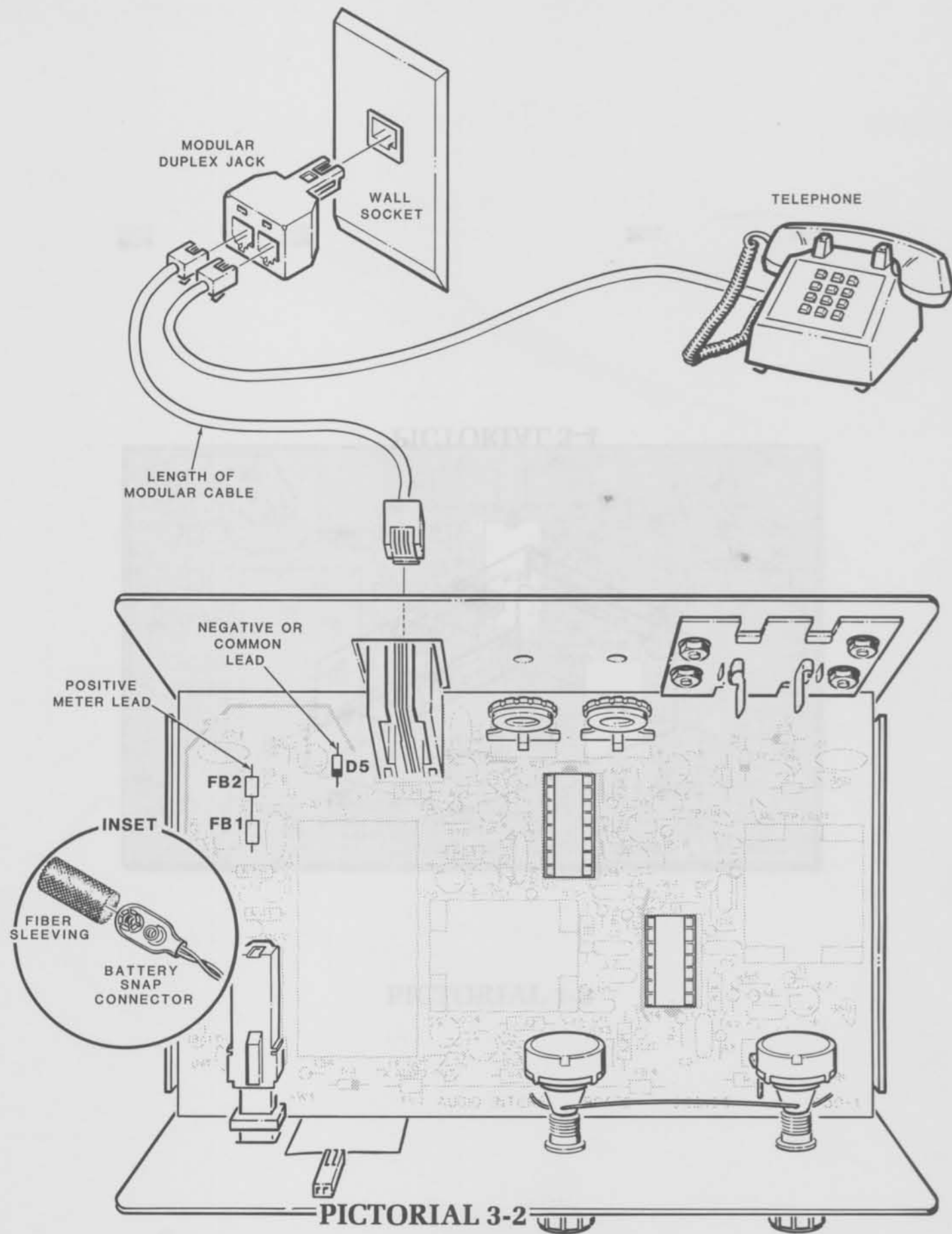
Detail 2-3A



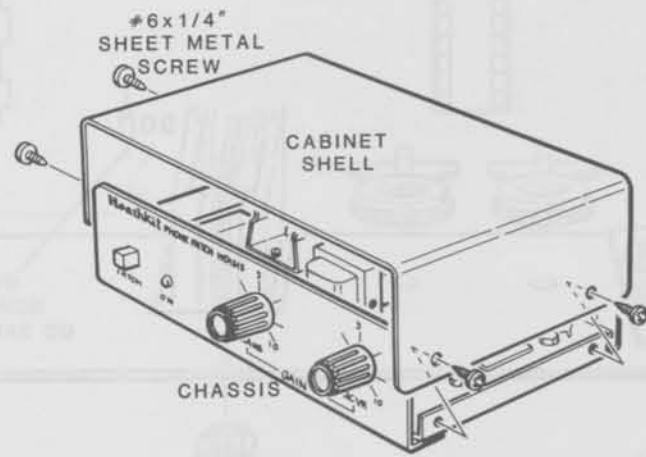
PICTORIAL 2-4



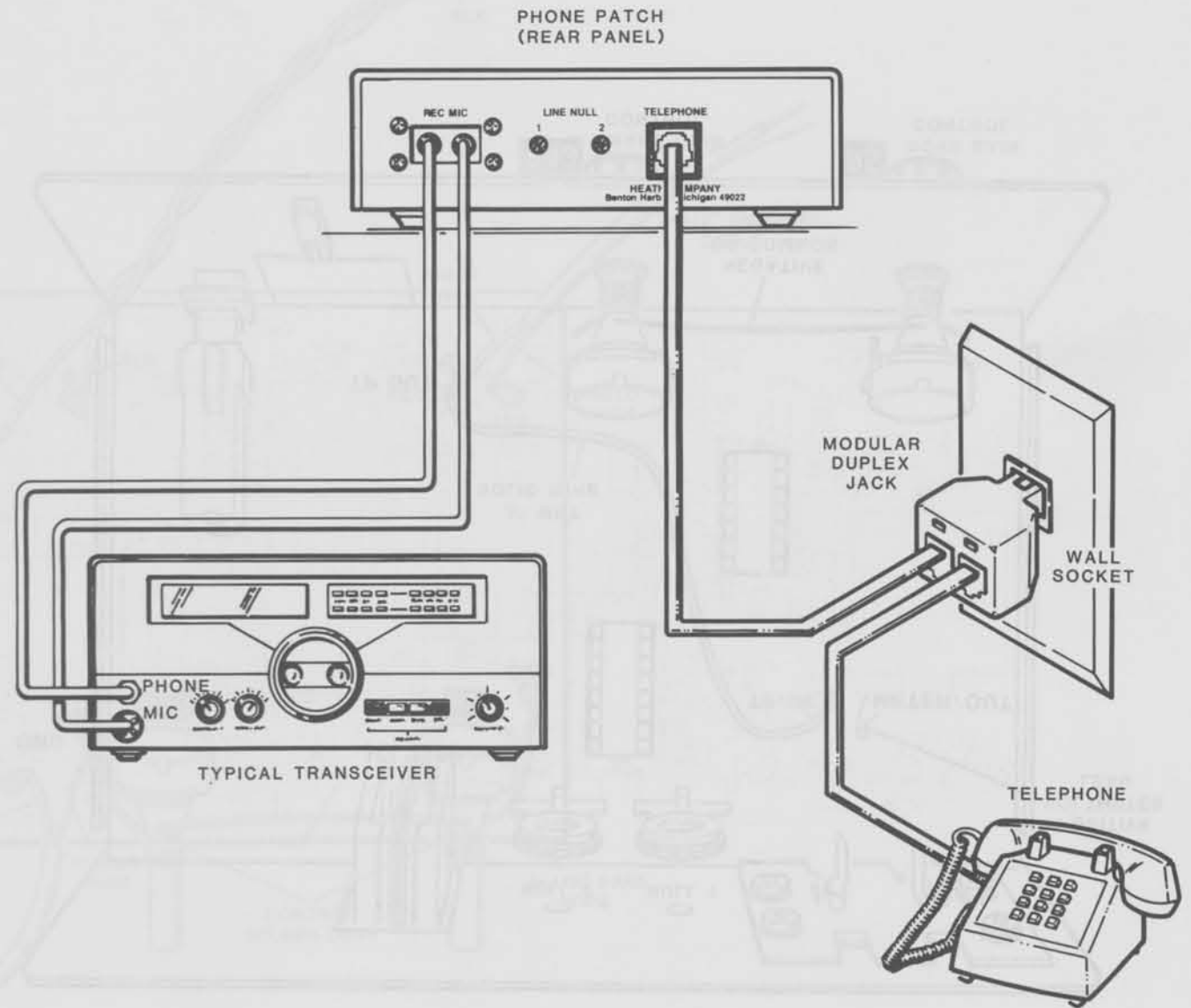
PICTORIAL 3-1



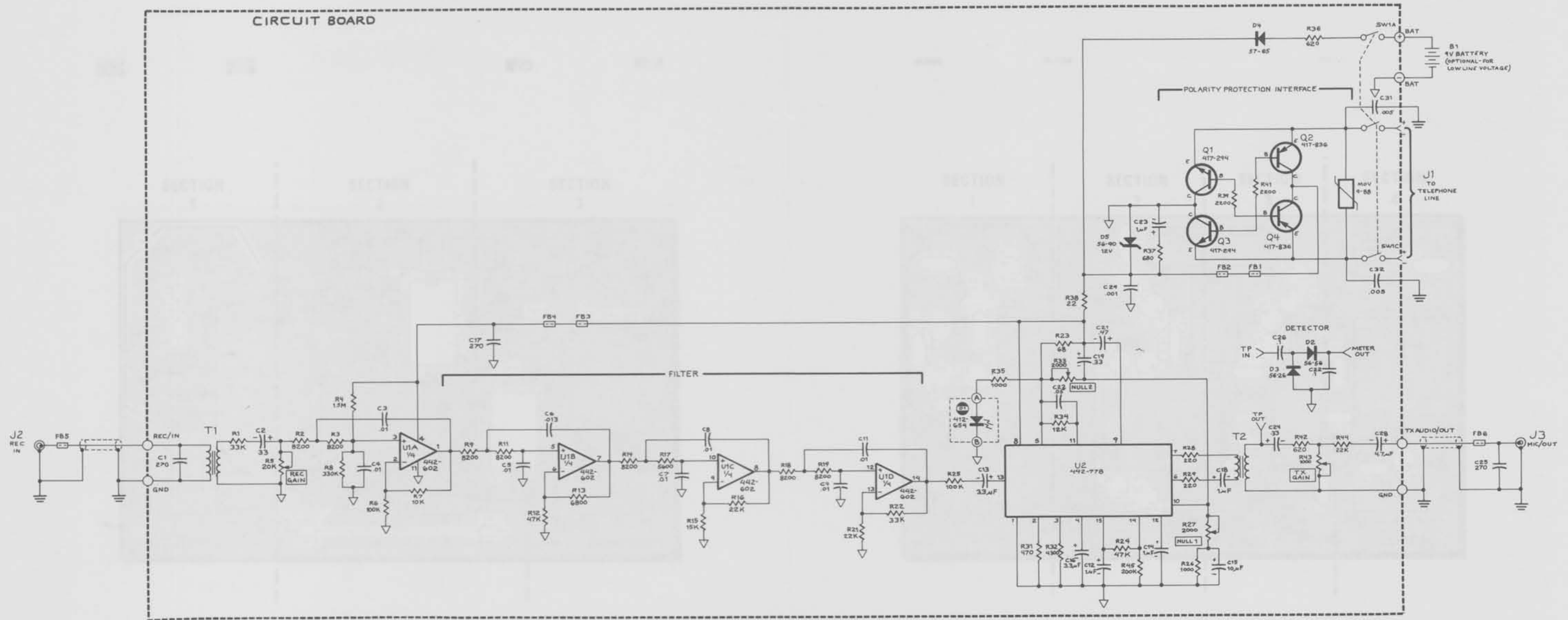
PICTORIAL 3-3



PICTORIAL 3-4



PICTORIAL 4-1



**SCHEMATIC OF THE
HEATHKIT®
MODEL HD-1515
PHONE PATCH**

NOTES:

1. All resistors are rated at 1/4-WATT and have a 5% tolerance unless otherwise noted. Resistor values are in ohms (K=1,000, M=1,000,000).

2. Capacitor values less than 1 are in μ F (MICROFARADS). All other capacitor values are in pF (PICOFARADS) unless otherwise noted.
3. ○ Indicates a wire connection to the circuit board.
4. ≡ Indicates chassis, or telephone line ground*.
5. ▽ Indicates circuit board ground*.
6. ● Indicates a component drawn inside the circuit board portion of the Schematic, but is not actually on the circuit board.
7. Refer to the "X-Ray View" for the physical locations of parts on the circuit board.

*This Phone Patch uses two separate ground systems that are not connected together.